Source	Capacity (MW)	% of Total
Thermal (including gas, Steam, diesel/wind) . . .	51842.3	70.58
Nuclear	2005.0	2.73
Hydro	19602.41	26.69
Total :	73449.71	100.00

(c) Total energy generation in the Country during April, 1993—January, 1994 was as under:—

	Energy Generation (MU)	%of Total
Thermal	201751	75.68
Nuclear	4705	1.76
Hydro	60143	22.56
Total :	266599	100.00

(d) Transmission losses are in the range of 5 to 6 per cent. Total transmission and distribution losses are in the range of 22 to 23 per cent.

(e) Theft is one of the reasons for unaccounted distribution losses.

(f) The modus operandi and malpractices adopted by the consumers include direct tapping of the service main, pilfering from iron clad cutouts, tampering with energy meters, CTs, PTs, neutrals and changing of connections and pilferage with connivance of the staff.

Collaboration of foreign countries in Power Generation

2193. SHRI BHUPINDER SINGH MANN: Will the Minister of POWER be pleased to state:

(a) the names of foreign countries which are collaborating in generating power in India, the details thereof and their investment till date;

(b) what is the estimated cost of power generation and what will be the same at the time of actual generation;

(c) what terms and conditions have been set for their power generation; and

(d) whether some atomic power plants are going to come up with collaboration, if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI P. V. RANGAYYA NAIDU): (a) The list of proposals alongwith the details received from foreign investors (including NRIs and joint ventures) is enclosed at statement-I. The investment will start after commencement of construction of the projects.

(b) The estimated cost of power generation on completion from the approved private sector power projects in the range of Rs. 2.50 at the current exchange rate.

(c) The terms and conditions will be as per policy in this regard the main points of which are given in enclosed statement-II.

(d) Private sector participation in atomic power plant is not permitted.

Statement I

Details of expression by foreign private companies

Sl. No.	Name of Project/State	Foreign/ Indian	Capacity (MW)	Prov. Cost Estimate (Rs. Crs.)	Name of the Company
1.	Jegurupadu GBPP/(Godavari) Andhra Pradesh	Forgn. (NRI)	235.00 (Gas)	327.00	GVK Industries. USA
2.	Kakinada GBPP/(Godavari) Andhra Pradesh	Forgn. (NRI)	208.00 (Gas)	743.43	Spectrum Power Generation Ltd. USA
3.	Visakhapatnam TPS/ Andhra Pradesh	Forgn. Indian JV	1000.00 (2×500) (Coal)	3000.00	Ashok Leyland & National Power (U.K.)
4.	Kameng HEP/ Arunachal Pradesh	Indian/ Forgn.	600.00 (Hydel)	1800.00	Intercorp. Industries Ltd. Snowy Mountains Engg. (Australia)
5.	Kharsang GBPP/ Arunachal Pradesh	Forgn./ Indian JV	48.00 (Gas)	168.00	Intercorp Industries Ltd. Snowy Mountains Engg. (Australia)
6.	Amguri GBPP/Assam	Forgn.	350.00 (Gas)	1230.00	Northern Engineering Inc. USA/Agra Industries.
7.	Paguthan GBPP/Gujarat	Forgn./ Indian	654.70 (Gas)	2178.14	Gujarat Torrent Energy Corpn. Ltd./Siemens, Germany.
8.	Lignite based TPS/Gujarat	Forgn.	250.00 (Lignite)	875.00	Eisenberg Group of Co., Israel.
9.	Hissar TPS/Haryana	Forgn.	500.00 (2×250) (Coal)	1000.00	Cogentrix Inc. USA
10.	Yamunagar TPS/Haryana	Forgn.	1000.00 (4×250) (Coal)	3500.00	Eisenberg Group of Cos. Israel.
11.	Hibra HEP/Himachal Pradesh	Forgn.	231.00 (Hydel)	708.50	Harza Engineering Co. USA
12.	Dhamwari HEP/ Himachal Pradesh	Forgn.	70.00 (Hydel)	245.00	Harza Engineering Co. USA
13.	Mangalore TPS/Karnataka	Forgn.	1000.00 (Coal)	5083.00	Cogetrix Inc. USA.
14.	Mangalore TPS/Karnataka	Indian Forgin.	300.00 (Coal)	900.00	Jaiprakash Industries Ltd./ National Power (U.K.)
15.	Almatti Dam HEP/Karnataka	Forgn./ Indian JV	600.00 (Hydel)	1800.00	Asia Power Co. Ltd. (TAPCO) USA, Karnataka Power Corporation.
16.	Hospet TPS/Karnataka	Forgn.	500.00 (1×500) (Coal)	1350.00	Hok Intercontinental Ltd. USA
17.	Raichur St.—V TPS/Karnataka	Forgn./ Indian JV	500.00 (2×250) (Coal)	1000.70	Public Power Int., Inc. (North East Energy) USA Karnataka Power Corp.

Sl. No.	Name of Project/State	Foreign/ Indian	Capacity (MW)	Prov. Cost Estimate (Rs. Crs.)	Name of the Company
18.	Thrikkaripur TPP/Kerala	Forgn.	420.00 (2×210) (Coal)	1480.00	M.A. Al-Mazroui Gen. Trading Est. UAE Scepture Power Co.,USA
19.	Dabhol CCGT (LNG)/ Maharashtra	Forgn.	2015.00 (LNG)	9051.27	Enron Power Development Corporation & General Electric Corp. USA
20.	Khaparkhera TPS Units 5 & 6 Maharashtra	Forgn.	500.00 (2×250) (Coal)	1632.00	Aranco Line Shipping Co. (Malta/Singapore) R.R. Associates
21.	Umred TPS Maharashtra.	Forgn./ Indian JV	1000.00 (Coal)	3000.00	Ispath Alloys Ltd./Mitsui (Japan)
22.	Talchar TPS-Orissa	Forgn.	500.00 (2×250) (Coal)	1500.00	Spectrum Technologies USA
23.	Kamalanga (Dhankanal TPS) Orissa	Forgn.	500.00 (2×250) (Coal)	1500.00	International Equity Partners, L.P., USA.
24.	Ab Valley TPS/Orissa	Forgn.	420.00 (2×210) (Coal)	2025.60	A E S Corporation, USA
25.	Ib Valley TPS-Orissa	Forgn.	3000.00 (Coal)	10500.00	Eisenberg Group of Cos. Israel
26.	Duburi TPS/Orissa)	Forgn/ Indian	500.00 (2×250) (Coal)	1548.00	Kalinga Power Corp.-/ North East Energy Services Inc., USA/Govt. of Orissa
27.	Lapanga TPS/Orissa	Forgn.	500.00 (2×250) (Coal)	1750.00	Pioneer Energy Inc.USA/ Duke Engineering Services, USA
28.	Barsingsar TPS/Rajasthan	Forgn.	240.00 (2×120) (Lig.)	585.73	(Colemen & Associates (Australian Consortium)
29.	Cuddalore TPS/Tamil Nadu	Forgn.	1000.00 (2×500) (Coal)	2000.00	International Contracting & Marketing Corpn. USA.
30.	Pillaiperumalnallur OCGT-Tamil Nadu	Forgn.	300.00 (2×100 +1×100 (Gas)	429.49	P. Vijaykumar Reddy MAKOWSKI Associates USA
31.	Zero unit (NLC)/Tamil Nadu	Forgn. (NRI)	210.00 (1×210) (Lig.)	750.00	ST Power Systems Inc., USA
32.	Jayamkondam Lignite TPS-Tamil Nadu	Indian/ Forgn.	1500.00 (3×500) (Lig.)	4500.00	Jayamkondam Lignite Power Corporation Ltd. (TIDCO), Monally Bharat Germany

Sl. No.	Name of Project/State	Foreign-Indian	Capacity (MW)	Prov. Cost Estimate (Rs. Crs.)	Name of the Company
33.	Rosa TPS-Uttar Pradesh	Foreign. Indian	750.00 (3250) (Coal)	2625.00	Indo-Gulf Fertilizers & Chemicals/Power Generation U.K.
34.	Sagardighi TPS-W. Bengal	Forgn. Indian JV	1000.00 (22500) (Coal)	2000.00	Development Consultant Pvt. Ltd., CMS, USA Generation & WBSEB
35.	Dankuni GBPP-W. Bengal	Forgn. (NRT)	20.00 (Gas)	40.00	Specturm Techologies USA.
			22431.70	73385.86	

Statement-II

Policy Guideline to Encourage Greater Private Sectorpariticipation in the Electricity Generation and Distribution

—Private Sector can set up thermal projects (coal|gas) and hydel projects and wind/solar energy project of any size.

—Electricity Projects where the total outlay does not exceed Rs. 25 crores need not be submitted to the Central Elecricity Authority for consurrense.

—Private sector companies can set up enterprises to operate either as licenses or as generating companies.

—All private dompanies entering the Electricity Sector hereafter will be allowed a debt-equity ration upto 4.1.

—Promoter's contribution should be at least 11 per cent of the total outlay.

—To ensure that private entrepreneurs bring in additionality of resources to the sector, not less than 60 per cent of the total outlay for the project must come from sources other than Public Financial Institutions.

—Upto hundred per cent (100%) foreign equity participation can be permitted for projects set up by foreign private investors-

—The condition of dividend balancing by export earnings which is normally being applied to cases of foreign invesment upto 51 per cent equity will not be applicable to foreign investments in the power sector.

—The rates for depreciaton in respect of assets have been liberalised.

—While the approval of the Government, import of equipment for power projects will also be permitted in cases where foreign supplier(s) or agency (ies) extend concessional credit.

—The customs duty for import of power equipment has been reduced to 20 percent and this rate has also been extended to machinery required for modernisation and renovation of power plans.

—A five year tax holiday has been allowed in respect of profits and gains of new industrial undertakings set up anywhere in India for either generation or generation and distribution of power. The five year tax holiday will hegin from the year of generation of power.

The excise duty on a large number, of capital goods and instruments in the power sector has been reduced to a uniform lower rate of 5 per cent.

—Upto 16 per cent return on the foreign equity included in the traiff can be provided in the respective foreign currency.

—Fixed costs including 16 per cent Return on Equity (IOC) can be recovered at 58.5 per cent PLG. Attractive incentives are prescribed for performance beyond this PLF in the form of additional ROE (upto 0.7 per cent) for each 1 per cent rise in PLF.

—Flexibility has been allowed in including insurance charges in the project cost.

—Government of India may consider extending a counter guarantee for the payment obligations of State Electricity Boarls to the private power companies on the specific request of the concerned State Government subject to certain terms and conditions.

The specific incentives for Licences are:

—Licences of longer duration of 30 years in the first instance and subsequent renewals of 20 years instead of 20 and 10 years repspectively as it was before.

—Higher rate of return of 5 per cent in place of the previous 2 per cent above the RBI rate.

—Capitalisation of Interest During Construction (IDC) at actual cost (for expansion projects also) as against 1 per cent over RBI rate as it was before.

—Specaial appropriation to meet the debt redemption obligations.

विद्युत क्षेत्र में निवेश के लिए ब्रिटेन और कनाडा के साथ समझौता

2194. **श्री गोपाल सिंह जी० सोलंकी** क्या **विद्युत** मंत्री यह बताने की कृपा करेंगे कि :

(क) क्या विद्युत उत्पादन के लिए ब्रिटेन और कनाडा के साथ द्विपक्षीय समझौते करने के संबंध में कोई अध्ययन किया गया है ;

(ख) यदि हां, तो तत्संबंधी ब्यौरा क्या है ; और

(ग) यदि नहीं, तो इसके क्या कारण हैं ?

विद्युत मंत्रालय में राज्य मंत्री (श्री पी० वी० रंगैया नायडू) : (क) विद्युत मंत्रालय ने किसी भी प्रकार के अध्ययन कार्य की शुरुआत नहीं की है और न ही उसे इस तरह के किसी अध्ययन कार्य की जानकारी है।

(ख) और (ग) प्रश्न ही नहीं उठता।

Rehabilitation and life Extension scheme of Kothagudem Thermal power Station

2195. DR. NARREDDY THULASI REDDY: Will the Mnister of POWER be pleased to state:

(a) whether the Andhra Pradesh Government has submitted a project proposal for rehabilitation and life extension scheme of Kothagudem Thermal Power Station through external assistance;

(b) if so, the deails therof; and

(c wnat action has been taken?

THE MINISTER OF STATE IN THE MINISTRY OF POMER (SHRI P. V. RANGAYYA NAIDU): (a) to (c) Yes, Sir. The Andhra Pradesh State Electricity Board (APSEB) had submitted a proposal for rehabilitation/life extension of the 4x60 MW units at Kothagudam Thermal Power Station with jroposed external assistance from OECF. The proposal received techno-economic clearance of the Central Electricity Authority (CEA) on 10.3.1992 at an estimated cost of Rs. 87.56 crores. The project has been posed to the Government of Japan for OECF assistance in 1994-95.

Outlay for Power Sector in Madhya Pradesh

2196. SHRI DILIP SINGH YADAV: Will the Minister of POWER be pleased to state:

(a) whether Government have enhanced the total outlay for power sector in